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Tom1 (h): 293T Lysate: sc-116266

BACKGROUND

Tom1 (target of Myb 1) is a 492 amino acid cytoplasmic protein that belongs to the Tom1 family. Widely expressed with highest expression in heart, liver, placenta and skeletal muscle, Tom1 is thought to be involved in intracellular trafficking and may be associated with the translocation of ubiquitinated proteins to early endosomes for degradation. Tom1 contains one GAT domain and one VHS domain through which it interacts and complexes with proteins such as Tollip and endofin (also known as SARA). These interactions recruit Tom1 to the endosome, allowing it to participate in the endosomal trafficking of ubiquitin-tagged proteins. Human Tom1 shares 76% similarity with its chicken counterpart and 89% similarity with its mouse counterpart, suggesting a conserved function between species.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TOM1 (human) mapping to 22q12.3.

PRODUCT

Tom1 (h): 293T Lysate represents a lysate of human Tom1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Tom1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Tom1 antibodies. Recommended use: 10-20 µl per lane.

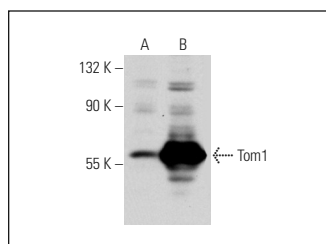
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Tom1 (RQ-07): sc-101283 is recommended as a positive control antibody for Western Blot analysis of enhanced human Tom1 expression in Tom1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Tom1 (RQ-07): sc-101283. Western blot analysis of Tom1 expression in non-transfected: sc-117752 (A) and human Tom1 transfected: sc-116266 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.